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# Recombinant human FKBP36/FKBP6 protein

Catalog Number: ATGP0560

# **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-327aa

### **UniProt No.**

075344

### **NCBI Accession No.**

NP 003593.3

#### **Alternative Names**

Inactive peptidyl-prolyl cis-trans isomerase FKBP6, Inactive PPlase FKBP6, 36 kDa FK506-binding protein, 36 kDa FKBP, FKBP-36, FK506-binding protein 6, FKBP-6, Immunophilin FKBP36, peptidylprolyl cis-trans isomerase, Rotamase

### **PRODUCT SPECIFICATION**

# **Molecular Weight**

39.3 kDa (347aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 1mM EDTA, 0.2M NaCl

### **Purity**

> 95% by SDS-PAGE

# **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

# **Biological Activity**

Specific activity is > 190nmol/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAPF-pNA per minute at 25C in Tris-Hcl pH8.0 using chymotrypsin.

### Tag

His-Tag

### **Application**

SDS-PAGE, Enzyme Activity

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.



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### **BACKGROUND**

### **Description**

FK506 binding protein 6, also known as FKBP6, is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. ubiquitously expressed in all tissues, FKBP6 is present at highest levels in testis, liver, kidney, skeletal muscle and heart. Deletion of FKBP6 may contribute to hypercalcemia and growth delay in Williams-Beuren syndrome. Recombinant human FKBP6, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

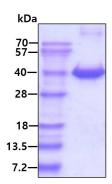
<MGSSHHHHHH SSGLVPRGSH> MGGSALNQGV LEGDDAPGQS LYERLSQRML DISGDRGVLK DVIREGAGDL VAPDASVLVK YSGYLEHMDR PFDSNYFRKT PRLMKLGEDI TLWGMELGLL SMRRGELARF LFKPNYAYGT LGCPPLIPPN TTVLFEIELL DFLDCAESDK FCALSAEQQD QFPLQKVLKV AATEREFGNY LFRQNRFYDA KVRYKRALLL LRRRSAPPEE QHLVEAAKLP VLLNLSFTYL KLDRPTIALC YGEQALIIDQ KNAKALFRCG QACLLLTEYQ KARDFLVRAQ KEQPFNHDIN NELKKLASCY RDYVDKEKEM WHRMFAPCGD GSTAGES

### **General References**

Crackower MA., et al. (2003) Science. 300(5623):1231-5. Metcalfe K., et al. (2005) Clin Dysmorphpl. 14(2): 61-5.

# **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

